







# CONVENTION ON BIOLOGICAL DIVERSITY

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**ENGLISH ONLY** 

CONFERENCE OF THE PARTIES TO THE CONVENTION ON BIOLOGICAL DIVERSITY
Sixth meeting
The Hague, 7-19 April 2002
Item 21 of the provisional agenda\*

#### INTERLINKAGES BETWEEN BIOLOGICAL DIVERSTY AND CLIMATE CHANGE

Report of the first meeting of the Ad Hoc Technical Expert Group on Biological Diversity and Climate Change, Helsinki, 21–25 January 2002

1. The Ad Hoc Technical Expert Group on biological diversity and climate change held its first meeting at the Finnish Environment Institute from 21 to 25 in Helsinki, Finland, with the financial support of the Government of Finland and the Government of Switzerland.

#### ITEM 1. OPENING OF THE MEETING

- 2. The representative of the Executive Secretary of the Convention on Biological Diversity (CBD) opened the meeting on Monday 21 January 2002. Mr. Pekka Kangas, General Director from the Finnish Ministry of the Environment, made a welcome address to the Expert Group. Mr. Kangas outlined CBD activities in Finland, focussing on the clearing-house activities and assessment of the implementation of the Convention. He wished the experts a productive and successful meeting.
- 3. After the members of the Group introduced themselves (see list of participants in Annex 1), the representative of the Executive Secretary of the Convention recalled the mandate of the Group as described in the annotated provisional agenda (UNEP/CBD/AHTEG-BDCC/1/1/Add.1).
- 4. Dr. Habiba Gitay introduced the technical paper prepared by the Intergovernmental Panel on Climate Change (IPCC) on the inter-linkages between biological diversity and climate change. A member of the Secretariat of the Convention introduced a note by the Executive Secretary of the Convention on Biological Diversity entitled "A review of the impact of climate change on forest biological diversity"

/...

<sup>\*</sup> UNEP/CBD/COP/6/1 and Corr.1/Rev.1.

(UNEP/CBD/AHTEG-BDCC/1/2). A number of other documents were tabled in addition to the documents listed in annex II of the annotated provisional agenda (UNEP/CBD/AHTEG-BDCC/1/1/Add.1).

#### ITEM 2. ORGANIZATIONAL MATTERS

5. The experts elected two Co-chairs for the meeting: Ms. Outi Berghäll (Finland) and Dr. Robert Watson, the Chairman of IPCC; and a Rapporteur: Dr. Horst Korn (Germany). The Group adopted the provisional agenda prepared by the Executive Secretary (UNEP/CBD/AHTEG-BDCC/1/1) and the organization of work of the meeting contained in annex I to the annotated provisional agenda on the understanding that items 3 and 4 would be discussed simultaneously.

## ITEM 3: REVIEW OF EXISTING INFORMATION ON THE INTERLINKAGES BETWEEN BIOLOGICAL DIVERSITY AND CLIMATE CHANGE

and

ITEM 4: REVIEW OF EXISTING APPROACHES AND TOOLS THAT WOULD FACILITATE APPLICATION OF SCIENTIFIC ADVICE FOR THE INTEGRATION OF BIODIVERSITY CONSIDERATIONS INTO THE IMPLEMENTATION OF MEASURES TO MITIGATE OR ADAPT TO CLIMATE CHANGE

- 6. During the meeting, the Group addressed the following substantive issues from its mandate first in plenary and later in two working groups:
- (a) Review of existing information on the interlinkages between biological diversity and climate change, and
- (b) Review of existing approaches and tools that would facilitate application of scientific advice for integration of biodiversity considerations in the implementation of measures to mitigate or adapt to climate change.
- 7. In the discussions, the Group took into consideration the relevant articles of the Convention on Biological Diversity and the United Nations Framework Convention on Climate Change, the relevant decisions of the respective Conference of the Parties and recommendations of their scientific bodies. An annotated list of some of these decisions is presented in annex I below.
- 8. The Group decided to prepare two documents:
- (a) Assessment report on interlinkages between biological diversity and climate change, building essentially on the IPCC Technical Paper and the review of the impact of climate change on forest biological diversity; and
- (b) Advice on the integration of biodiversity considerations into the implementation of the UNFCCC and its Kyoto Protocol.

- 9. The content of these documents were developed and discussed in the respective working groups chaired by Dr. Braulio Dias (Working Group I) and Dr. Horst Korn (Working Group II). The resulting detailed outlines of the documents are presented in annexes II and III below.
- 10. With regard to SBSTTA recommendation VII/6, on forest biological diversity, in which the Subsidiary Body invited the Group to consider in its work activities relating to mitigation of the negative impacts of climate change on forest biodiversity (see UNEP/CBD/AHTEG-BDCC/1/1/Add.1, paras. 9 and 10), the Group concluded that its report would provide a basis for the development of those activities.

### ITEM 5. SCOPING OF INTER-SESSIONAL WORK AND PREPARATION FOR THE SECOND MEETING

- 11. The process for the writing, review and publication of the two documents was discussed and a timetable was agreed as contained in Annex 4. The Group decided that the intersessional work will include
  - (a) The finalization of the writing team;
- (b) The preparation of individual chapters under the coordination of the designated members of the ad hoc expert groups;
  - (c) The holding of a meeting of lead authors and invited experts;
- (d) An expert and government peer-review process to ensure credibility and ownership from a wider range of stakeholders;
  - (e) Integration of reviewer's comments into the second drafts.
- 12. It was also agreed that at the final meeting of the whole Group, all the experts would serve as reviewers/editors.
- 13. The Group generally agreed that two meetings would be required for the finalization of each document and noted the financial implications of the additional meetings. In order to keep the cost to the minimum, the possibility of combining meetings would be explored. The Group has requested the Executive Secretary of the Convention on Biological Diversity to approach Governments to raise the required additional funds so that the Group can complete its work.
- 14. The Group also requested the Executive Secretary to distribute the present to the participants in the UNFCCC/CCD/CBD Liaison Group meeting on 30 January 2002 for their information and consideration in their development of the tripartite synergy.

#### ITEM 6. OTHER MATTERS

15. The Group tentatively proposed holding its next meeting early or mid-August 2002 to be able to produce a substantive report for the eighth meeting of SBSTTA.

#### ITEM 7. ADOPTION OF THE REPORT AND CLOSURE OF THE MEETING

16. The Group considered a draft report of its meeting presented by one of the Co-Chairs on behalf of the Rapporteur. It requested the Secretariat of the meeting to complete the report by including the

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decisions taken in the last plenary and distribute the revise report within the Group for comments and approval in due course.

17. Following the statements made by a number of participants, including the representative of the Executive Secretary, one of the Co-Chairs closed the meeting on Thursday 24 January at 10 p.m.

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#### Annex 1

#### TIMETABLE FOR FURTHER ACTIONS UNDER UNFCCC, IPCC AND CBD

#### UNFCCC

COP 8	Oct 2002	SBSTA 16	June 2002
COP 9	Oct/Nov 2003	SBSTA 17	Oct 2002
COP 10	Oct/Nov 2004	SBSTA 18	May/June 2003
		SBSTA 19	Oct/Nov 2003
		SBSTA 20	May 2004
		SBSTA 21	Nov 2004

#### CBD

COP 6	April 2002		
		SBSTTA 8	Nov/Dec 2002
		SBSTTA 9	May-Nov 2003
COP 7	April/May? 2004		
		SBSTTA 10	2004
		SBSTTA 11	2005

Issue	Submissions from Parties	Proposed workshop	Decisions
UNFCCC			

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Issue	Submissions from Parties	Proposed workshop	Decisions
Cooperation with relevant	15 March 2002	Possible joint workshop prior to SBSTA 18	SBSTA 16 to consider
international organisations	- Views on what actions are required to	(and/or to integrate considerations into TOR for	"these issues"
	achieve	other relevant proposed workshops/submissions)	UNFCCC secretariat to
	greater cooperation (UNCFCCC, CCD,		report on
	(CBD)		work of the joint liaison group
			- the planned workshop
TOR for CDM projects	2 February 2002	Prior SBSTA 16	SBSTA 16 TOR
(Afforestation &	(EU submission already agreed by WPIEI)		COP 9 Definitions and
Reforestation)			Modalities
Investigate possible application			COP10
of biome specific forest			
definitions for later			
commitments periods			
Good practice guidance for			COP 9 Consideration and
LULUCF sector (elaboration			possible adoption
by IPCC)			
Issues relating to emissions	15 January 2003	-	SBSTA 18 will consider
from forest harvesting and	- Implications of harvested wood products		SBSTA 19 "
wood products	accounting (inc. approaches and		SBSTA 20 "
	methodologies)		SBSTA 21 "
	Sec. to compile submissions for		
	consideration at SBSTA 18 and prepare		
	technical paper for consideration at		
	SBSTA 19	W. I. I. GDGTL 16.	apart 16 III
Third Assessment	15 February 2000	Workshop prior to SBSTA 16 to explore	SBSTA 16 will consired
Report of the IPCC	Comments on information contained in	information in TAR	
COP DECISION	TAR and possible activities by IPCC in		
	support of UNFCCC (esp. Art. 2) and KP		

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Issue	Submissions from Parties	Proposed workshop	Decisions
UNFCCC work			Adaptation activities their
on Art. $4.8 - 4.9$ of the			guidance + funding considered
convention + related funding			at COPs, eg. COP8
Methods and tools to evaluate		Workshop prior to SBSTA 17 (and/or to	SBSTA 16: Secretariat's
impacts and adaptation		integrate issues into TOR for other proposed	progress report
		workshops or submissions relating to adaptation	
		issues)	
Development and	15 February 20002	Expert workshop prior to SBSTA 16 an	STSTA 16 will consider
transfer technologies	- Technical paper FCCC/TP/2001/2	technology info and needs assessment	
COP DECISION	- Issues identified in annex to doc		
	FCCC/SBSTA/2001/4		
	Secret. to summarise submissions for		
	consideration at SBSTA 16		
Good Practices in Policies and	15 February 2002		SBSTA 17 consider
Measures (PAMs)	- View on TOR of the workshop on PAMs		PAMs on the basis of
			information complished by the
			Secretariat on PAMs reported
			by Parties
Article 6 of the Convention:	31 December 2001	Workshop prior to SBSTA 16 to develop work	
Education, training and public awareness	- Comments on draft TOR for workshop	programme	
Activities implemented jointly	15 February 2002	(Workshop referred to in decision -/(CP 7 on	
under the pilot phase	- Views on experience of pilot phase of	AIJ under the pilot phase)	
ander the phot phase	AIJ	The dider are prior phase)	
IPCC			
Develop definitions for			COP 9 Consideration and
degradation and devegetation			possible adoption
and methodologies for			
inventories			

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Issue	Submissions from Parties	Proposed workshop	Decisions
Technical Paper on Climate	January 2002		Made available to
Change and Biodiversity	- Review by Experts and		SBSTA 16
	Governments by January 2000		
	April 2002		
	- Finalization of the report		
CBD			
Interlinkages between biodiversit	ty	First meeting of the Ad Hoc	Progress report at COP 6
and climate change		Technical Expert Group on	
		Biodiversity and Climate Change,	
		Helsinki 21-25 January 2002	
		Second meeting of the Ad Hoc	SBSTTA 8 (Substantive issue:
		Technical Expert Group on	item 5.1)*; SBSTTA 9
		Biodiversity and Climate Change,	(Reports: item 3.1), COP 7
		May - August 2002	
Related issues mentioned in			
para 3 of COP decision V/21			
Forest biodiversity (SBSTTA		First meeting of the Ad Hoc	COP 6 (One of the 3 main
VII/ 6)		Technical Expert Group on	themes) will adopt a
		Biodiversity and Climate Change,	programme of work and
		Helsinki 21-25 January 2002	decisions on forest biodiversity

<sup>\*</sup> If there is a need for additional work, the Group can recommend that SBSTTA considers a preliminary report at its eighth meeting and the final report at it ninth meeting.

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Issue	<b>Submissions from Parties</b>	Proposed workshop	Decisions
Cooperation with UNFCCC on		First meeting of the Ad Hoc	Progress report at COP 6
dry and sub-humid lands (para 3		Technical Expert Group on the	
of COP decision V/21); and		Biodiversity of Dry and Sub-Humid	
assessment of factors/ processes		Lands, mid-March 2002	
affecting dry and sub-humid land			
biodiversity, and global benefits			
derived from biodiversity (COP			
decision V/23, para 7) with CCD			
Assessment of factors/ processes		Second meeting of the ad hoc	SBSTTA 8 (Substantive issue:
affecting dry and sub-humid land		technical expert group on dry and	item 5.4)
biodiversity, and global benefits		sub-humid land biodiversity,	
derived from biodiversity (COP		September 2002?	
decision V/23, para 7) with CCD			

#### UNEP/CBD/COP/6/INF/6 Page 10

Issue	Submissions from Parties		Proposed workshop	Decisions
Cooperation with UNFCCC on	Case studies and implementation of respo	nse		Progress report at COP 6
coral reefs (para 3 of COP	measures (paras 6 and 7 of COP decision	V/3)		
decision V/21): development and				SBSTTA 8 (Substantive issue:
implementation of a work plan on				Item 5.3 Review of the Jakarta
coral bleaching in collaboration				mandate)
with UNFCCC and inter alia				
IPCC (para 4 of COP decision				
V/3).				
UNFCCC urged to take all				
possible actions to reduce the				
effect of climate change on water				
temperatures and to address the				
socio-economic impacts on the				
countries and communities most				
affected by coral bleaching				
(Annex to decision V/3: Priority				
areas for action on coral				
bleaching)				
Cooperation with UNFCCC on	Case studies			COP 6
incentives (para 3 of COP				
decision V/21):				
Other issues				
Global Plant Conservation			Expert meeting on targets and	COP 6 and progress report at
Strategy (including targets)			opportunities, Gran Canaria, 11 to	SBSTTA 8 (item 3.4) and
			13 February 2002	COP 7

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Issue	Submissions from Parties	Proposed workshop	Decisions
Mountain biodiversity (COP		Ad Hoc Technical Expert Group	SBSTTA 8 and work
decision IV/16)		on Mountain Biodiversity, July – September 2002	programme (main theme) at COP 7
Protected areas (COP decision			SBSTTA 9 and work
IV/16)			programme (main theme) at COP 7
Technology transfer and			SBSTTA 9 and one of the
cooperation (COP decision			main themes of COP 7
IV/16)			
Ecosystem approach: further			
elaboration and guidelines for			
implementation (COP decision V/	′		
6)			
Sustainable use: development of		Third regional workshop in	Progress report at COP 6;
practical principles, operational		Ecuador	Substantive issue at SBSTTA
guidelines and associated			9; COP 7
instruments			
Monitoring and indicators;			SBSTTA 9; COP 7
Impact assessment			

#### Annex II

## PROPOSED OUTLINE FOR THE REPORT ON THE INTERLINKAGES BETWEEN BIOLOGICAL DIVERSITY AND CLIMATE CHANGE

Editors: Habiba GITAY & Braulio DIAS

CHAPTER TITLE AND MAJOR SUBHEADINGS	KEY SOURCES	CO-LEAD AUTHORS	NUMBER OF PAGES
		* indicates lead § Potential authors to be contacted!	
Executive Summary		\$ 1 otential authors to be contacted.	2
1. Introduction	CBD, UNFCCC, IPCC, CCD	Habiba GITAY* Braulio DIAS*	2
<ul> <li>Request for this paper (CBD COP Decision &amp; SBSTTA Recommendation &amp; UNFCCC Decisions)</li> <li>How this paper was prepared (sources, authors, peer-review)</li> <li>Definitions (CBD, UNFCCC, IPCC, CCD)</li> </ul>			
2. Biodiversity and Humans		Peter STRAKA *	5
2.1. Biodiversity Components and Processes	GBA, GBO,	+Sandra Diaz +Braulio Dias +Matt McGlone	
<ul> <li>Set the conceptual framework</li> <li>CBD objectives and definitions</li> <li>Biodiversity components and levels</li> <li>Drivers and properties of biodiversity</li> <li>Variability/Plasticity of populations (potential and realized niches)</li> <li>Migration</li> <li>Speciation, extinction, extirpation, genetic erosion and contamination (rates and time lags)</li> <li>Functional aspects (theoretical and demonstrated)</li> </ul>			
2.2. Human Uses and Goods & Services of Biodiversity	GBA, GBO,	+Mirna Marin +Bob Watson +Clark Peteru	
<ul> <li>Values of biodiversity</li> <li>Goods and Services</li> <li>Local communities and indigenous peoples</li> </ul>			
2.3. Human impacts on Biodiversity	GBA, GBO,	+Horst Korn +Ian Thompson +Oswaldo Sala**	

CHAPTER TITLE AND MAJOR SUBHEADINGS	KEY SOURCES	CO-LEAD AUTHORS	NUMBER OF PAGES
Classification of stressors/threats (proximal and			
underlying factors)			
Relative importance of stressors			
• Interaction of stressors (including synergies)			
Current and future scenarios of land use			
3. Observed and Projected Changes in Climate	Summarize IPCC	BOB WATSON*	2
3.1. Observed Changes (past and XXth Century)	IPCC/TP:3		
Largely follow IPCC/TP outline			
Include past climate changes			
3.2. Projected Changes	IPCC/TP:4		
Largely follow IPCC/TP outline			
4. Observed Changes in Biodiversity		Matt McGLONE *	5
associated with Climate Change		112000 1120 02 01 12	
4.1. Past Changes (end of Pleistocene to XIX Century)	New text	Matt McGlone	
Speed of change and time lags			
Population fluctuations			
Community turnover/disaggregation			
Adaptation			
Migration			
• Extinction			
Genetic adaptation and speciation			
4.2. XXth Century Changes (# levels)	IPCC/TP:5	+Habiba Gitay	
	Gillison/TP:4	+Kevin Gaston**	
Largelly follow IPCC/TP outline			
Consequence of observed changes			
5. Projected Changes in Biodiversity	Summarize	Avelino SUAREZ *	5
associated with Climate Change	IPCC Reports + recent literature	Yoshi TSUBAKI *	
• Stress where uncertainties lie (use of qualifiers and models)			
Base on IPCC Technical Paper with corrections			
and complementary information			
Use findings in IPCC Reports regarding			
biodiversity associated with health and food			
Summary information for regions (box)			
Link specific changes in climate variables with			
impacts on biodiversity (when possible)			
• Interactions with different stressors (linear and			
non-linear)			
Differences between interdependent/co-evolved			
and opportunistic communities (modification			

CHAPTER TITLE AND MAJOR	KEY	CO-LEAD	NUMBER
SUBHEADINGS	SOURCES	AUTHORS	OF PAGES
versus movement)  Differentiate between perturbation and normal disturbance Alien species Impacts on centers of diversity of domesticated species Impacts on protected areas Impacts on areas of high species endemism and richness			
5.1. Terrestrial & Inland Water Systems (# levels)	IPCC/TP:6+ IPCC Reports +recent literature	Yoshi Tsubaki +Peter Straka	
<ul> <li>Potential desertification</li> <li>Consider soil organisms</li> <li>Consider literature on forest/savanna boundaries (and constraints to dispersal &amp; establishment)</li> <li>Interactions with fragmentation</li> </ul>			
5.2. Coastal and Marine Systems (# levels)	IPCC/TP:6+ IPCC Reports +recent literature	Avelino Suarez +Mirna Marin +Muna Faraj +Andrea Volentras	
<ul> <li>Impacts on small islands</li> <li>Highlight impacts on coral reefs</li> <li>Expand treatment of marine ecosystems</li> </ul>			
5.3. Implications to humans	IPCC Reports +recent literature	+Brett Orlando +Miguel Lovera +Avelino Suarez	
<ul> <li>Implications of biodiversity changes for human management objectives (positive and negative)</li> <li>Implications to human health and food security</li> <li>Local communities and indigeneous peoples</li> </ul>			
6. Potential Impacts of Biodiversity Change on Climate	IPCC/TP:6.5+ +recent literature	SCHULTZE § +Terry Chapin §	2
<ul> <li>Take from IPCC/TP (session 6.5)</li> <li>Consider local, regional and global effects</li> <li>Consider impacts on the albedo</li> <li>Consider impacts on gas fluxes (emissions and sinks)</li> <li>Consider differences in physiological processes (efficiency and productivity)</li> </ul>			

CHAPTER TITLE AND MAJOR SUBHEADINGS	KEY SOURCES	CO-LEAD AUTHORS	NUMBER OF PAGES
7. Potential Role of Biodiversity in Climate Change Mitigation and Adaptation	New text, recent literature	SANDRA DIAZ *  +David Wardle §  +David Cooper §  +Greg Ruark	2
<ul> <li>Use UNFCCC definition</li> <li>Present theoretical and demonstrated evidences</li> <li>Stress where uncertainties lie</li> <li>Biodiversity and ecosystem resistance and resilience to impacts</li> <li>Biodiversity and efficiency of ecosystem processes</li> <li>Consider species redundancy and genetic variability</li> <li>Genetic variability and adaptation</li> <li>Biodiversity as an 'insurance' against the unpredictable and the inevitable</li> <li>Link to Kyoto Protocol Articles 3.3, 3.4 and 12</li> <li>Consider agroforestry and landraces</li> <li>Consider technical, economic and market aspects</li> <li>Consider the Ecosystem Approach</li> <li>Costing methodologies</li> </ul>			
8. Potential Impacts of Climate Change Mitigation Options to Biodiversity	IPCC/TP:7 Summarize + additional literature	DAVID COOPER \$ +Samuel Dieme +Neal Sampson* +Schlamedinger*	4
<ul> <li>Use UNFCCC definition (explain Kyoto Protocol language)</li> <li>Take from IPCC Technical Paper</li> <li>Consider impacts of policy measures</li> <li>Consider costs and poverty constraints</li> <li>Relate to context of other stresses (chapter 2)</li> <li>Consider all types of Kyoto Protocol projects and LULUCF</li> <li>Consider policy tools and policy change options</li> <li>Avoid use of marine carbon sinks</li> <li>Productivity versus capacity to resist and adapt to change</li> <li>Risk of introducing alien species (prevent invasives)</li> <li>Local communities and indigenous peoples</li> </ul>			

CHAPTER TITLE AND MAJOR	KEY	CO-LEAD	NUMBER
SUBHEADINGS	SOURCES	AUTHORS	OF PAGES
8.1. Forest issues			
Include avoided deforestation			
Recognize different kinds of tree plantations			
(including those more biodiversity friendly)			
Concern about tree plantation replacing primary forests			
Concern about aforestation converting natural			
grasslands and savannas			
Consider opportunities for tree plantations to			
recover degraded lands			
Role of fire in biota conservation and sustainable			
management			
9.2 Land Has issues			
8.2. Land Use issues			
Consider issues in CBD Work Programs     (ecosystem-based)			
Role of fire in biota conservation and sustainable			
management			
Underground carbon management and			
biodiversity			
Link between coastal biodiversity and inland use			
change			
Rangeland and wetlands management and			
biodiversity			
Agriculture management versus biodiversity			
Traditional management practices			
8.3. Energy issues			
Biomass – pressure on native habitats			
Biomass – biomass plantations versus food crops			
Biomass plantations – optimizing for multiple use			
instead of maximizing for biomass			
Biomass plantations – use of native species			
Use of animal manure versus nutrient cycles			
Flying wildlife and energy lines/grids and wind			
mills  Tide gape biote and tidel energy generators			
<ul><li> Tide zone biota and tidal energy generators</li><li> Rivers Dam versus inland water biota</li></ul>			
Rivers Dam versus inland water blota conservation and sustainable use			
Exploitation of peat versus wetland biota			
Local communities and indigenous peoples			
9. Potential Impacts of Climate Change	IPCC/TP:8+		2
Adaptation Options to Biodiversity	Summarize +	MIRNA MARIN *	
	additional	+Avelino Suarez	
	literature	+Alan Watt	

CHAPTER TITLE AND MAJOR	KEY	CO-LEAD	NUMBER
SUBHEADINGS	SOURCES	AUTHORS	OF PAGES
Consequences of Climate Change potential to			
permanently change ecosystems and biodiversity			
Use UNFCCC definition			
Take from IPCC Technical Paper			
Consider positive and negative aspects			
• Identify limitations to adaptation (ex.: coral reef bleaching)			
Consider costs and poverty constraints			
Identify priority research needs and areas for			
improved scientific advice			
Autonomous versus human-induced adaptation			
Consider Sectoral practices			
9.1. Conservation options			
Consider corridors and protected area systems			
Target vulnerable genetic resources for rescue			
projects for <i>ex situ</i> conservation			
In situ conservation			
9.2. Sustainable Use & Benefit Sharing options			
Consider impacts on agroecosystems			
(agribusiness and peasant farmers)			
Reduce current vulnerability of agroecosystems to			
climate variability			
Pest management practices			
Local communities and indigenous peoples			
10. Uncertainties, Assessment Gaps and		Each Chapter to	2
Recommendations		contribute	
10.1. Uncertainties and Assessment Gaps	IPCC/TP:10+		
List key uncertainties and their implications			
List key assessment gaps			
List key research needs			
Discuss limitations & pros and cons of alternative			
models, tools and scales			
100 P	CUIT TO S		
10.2. Recommendations	Gillison/TP:6		
• List alternative approaches to further assessments			
Areas for Research and Assessments			
Implications of uncertainties			
Implications of Climate Change potential to			
permanently change ecosystems and biodiversity			
			33
			33

<sup>\*</sup>Potential authors to be contacted!

#### Annex III

## PROPOSED OUTLINE FOR THE PAPER ENTITLED "ADVICE ON THE INTEGRATION OF BIODIVERSITY CONSIDERATIONS INTO THE UNFCCC AND ITS KYOTO PROTOCOL"

Editors: Horst Korn and Phocus Ntayombya

CHAPTER TITLE AND MAIN TOPICS	CO-LEAD AUTHORS	NUMBER OF PAGES
Observations on topics to be included (or added relative to the IPCC/Technical Paper)	* indicates lead  **Potential authors to be contacted!	
Executive summary	Horst Korn, Phocus Ntayombya	5
1. Introduction	Brett Orlando*, Horst Korn	3-5
<ul> <li>Origin of the paper and why and for whom was it prepared</li> <li>Who prepared it and how</li> <li>Link to the first paper</li> <li>Relevant CBD decisions (those mentioning climate change - e.g. climate change, forests, incentives, coastal and marine)</li> <li>Decision (and principles) on the ecosystem approach</li> <li>Relevant FCCC articles and KP decisions (FCCC articles 2, 4.1(f), KP provisions on LULUCF, adaptation, etc.) and their possible evolution; who are the major actors (governments and the private sector - the primary role of the market and the private sector in climate change mitigation activities)</li> <li>Other relevant CBD decisions (those not mentioning climate change but relevant to providing advice - e.g. drylands, sustainable use, agro-biodiversity, etc.)</li> </ul>		
<ul><li>2. Implications of the first assessment for climate change mitigation and adaptation policies and projects</li><li>(This section is supposed to link paper 1 to this document and to summarize their mayor conclusions)</li></ul>	Kanta Kumari,* Mario Ramos, Braulio Dias, Habiba Gitay	5-7

CHAPTER TITLE AND MAIN TOPICS	CO-LEAD AUTHORS	NUMBER OF PAGES
Main findings and uncertainties related to climate change mitigation		
- E.g: LULUCF projects that can decrease net GHG emissions can have either beneficial or adverse environmental or social effects, hence approaches/tools are needed to assess the synergies and trade-offs of different designs		
- e.g. afforestation and reforestation – implications for water resources; use native vegetation, not exotics; imbed artificial wetlands for migratory birds; Forest and agricultural land management; avoided Deforestation - minimize leakage – alternative income streams; Fossil fuel substitution through biofuel plantations – (minimize impacts on native vegetation and water resources)		
- Describe the key features of mitigation policies and projects which take biodiversity into account ("if, then" constructs)		
- Forests, e.g. optimise carbon sequestration, while doing no harm to biodiversity or even increasing biodiversity		
- Other ecosystems		
- Energy activities		
- case studies and lessons learnt		
Main findings and uncertainties related to climate change adaptation		
- Describe the key features of adaptation policies and projects which take biodiversity into account ("if, then" constructs)		
- Forests		
- Other ecosystems (e.g. coastal and marine)		
- Energy activities		
3. Operational approaches to integrate biodiversity considerations in climate change mitigation and adaptation policies and projects	Gregory Ruark*, Ian Thompson, Sem Shikongo	15
	Other potential authors to be contacted - A. Gillison, - marine/coastal Specialist to be contacted by Andrea	

Volentras (SPREP), - IUCN/CEM, - FAO, - Saleemul Huq/IIED - CGIAR (to provide case studies) - Ajay Mathur and/ or Charles Feinstein (WB)  - Principles of the ecosystem approach: - no single way to implement ecosystem approach (CBD decision V/6 para.5) - scale is defined appropriately: national, landscape, project - management should be decentralized to the lowest possible level management decisions taken in consultation with stakeholders - encourages cross-sectoral decision-making - adaptive management - long-term view - Mitigation (using the ecosystem approach) - Scale set of guidelines: national and regional policies as well as landscape and site contexts - Forests, e.g. non-prescriptive outline that describes the spectrum of options for reforestation — monoculture to mixed species - all with varying degrees of biodiversity richness and ecological function; note different ways of reforestation — forest reclamation, rehabilitation and restoration — the landscape approach; (apply appropriate methods, drawing upon the ecosystem approach including all strata); relationship with private sector - Other ecosystems - Energy (e.g. hydro-power, wind, solar) - case studies and lessons learnt - Adaptation (ecosystem approach) - Forests and other terrestrial ecosystems (e.g. integrated land and water management; conservation of biodiversity at all levels) - Coastal and marine - Energy (e.g. renewable energy including hydropower)  Issues raised in general discussion which may be taken into account: - already ongoing activities (Proposal: could these be taken "on board" by case studies? H. Korn) - transboundary issues	СНАРТ	TER TITLE AND MAIN TOPICS	CO-LEAD AUTHORS	NUMBER OF PAGES
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- transboundary issues				
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CHAPTER TITLE AND MAIN	TOPICS CO-LEAD AUTHORS	NUMBER OF PAGES
4. Tools for making, evaluating and monit	toring decisions Allan Watt* (also Criteria & Indicators),	15
	<u>Indigenous Peoples</u> Clark Peteru,	
	MIGUEL LOVERA	
	(as Authors or to look for other appropriate persons)	
	Other potential authors to be contacted:	
	Environmental Assessments: - R. Goodland/WB, - IAIA, - EEA	
	Decision making framewor - Sam Fenkhauser (EBRD)/ - David Pearce	
	IPs: Clark Peteru/Miguel <u>Case studies</u> : WB, UNDP	

CHAPTER TITLE AND MAIN TOPICS	CO-LEAD AUTHORS	NUMBER OF PAGES
<ul> <li>Environmental assessments (e.g. project, strategic - sectoral and regional - environmental and social impact assessments and safeguard policies, project life-cycle analysis)</li> <li>Decision making/support frameworks (e.g. conflict management, cost-benefit, cost-effectiveness, adaptive management)</li> <li>Criteria and indicators (biological and social) system for policies and projects to evaluate and monitor the effects of climate change mitigation and adaptation actions on biodiversity:         <ul> <li>indicators will change over time</li> <li>define targets for biodiversity maintenance</li> <li>Include, if appropriate, lessons learnt:</li> <li>positive case studies</li> <li>lessons learnt from failure from an ensemble of projects and policies</li> <li>institutional needs for successful project or policy implementation)</li> <li>tools for risk assessment/risk management</li> <li>capacity-building (assessment and implementation)</li> </ul> </li> <li>Hint from general discussion in Plenary:</li> <li>There may be information on capacity building in national reports</li> </ul>		
5. Recommendations (with options) for action	All: Task for 2 <sup>nd</sup> Meeting	3-5
(This section was not discussed thoroughly since it was felt that the outcome of it depends on the findings of paper 1 and the above sections of paper 2. So far this is just a brain- storming list!)		

	CHAPTER TITLE AND MAIN TOPICS	CO-LEAD AUTHORS	NUMBER OF PAGES
-	Note to authors: Directed to multiple sectors (e.g. forests, agriculture, energy, etc.) concerning relevant stakeholders (e.g. Parties, international institutions, the private sector, local communities and indigenous peoples)		
-	Priority setting (e.g. conserve forests, reforest, then afforest)		
-	Mitigation options		
-	Adaptation options		
-	10 recommendations in total; 5 for mitigation; 5 for adaptation; possible cross-cutting recommendations		
-	3 levels: policy, programme and project		
-	Capacity building, create institutional framework		
-	(Mitigation options should support adaptation)		
-	Areas of future work (collaboration with UNFCCC and/or IPCC)		
_	Consider mainstreaming		
		TOTAL	50
de	Appendices: Text of relevant CBD decisions and UNFCCC cisions (incl. Kyoto Protocol and the Marrakech Accords)		

#### Annex IV

## PROCEDURES FOR WRITING AND REVIEW - GOAL - PRODUCT BY THE EIGHTH MEETING OF SBSTTA

- "Select" the writing teams (mid Feb 2002)
- Prepare individual chapters (early July 2002)
- Develop first draft of both products including Executive Summary (1week meeting) early August 2002
- Review of first drafts (6 weeks; expert/stakeholder/government; combination of www distribution, distribution to Nat. focal points and some specific hard copies) late August / mid October 2002
- Collate and distribute comments by October 2002
- Develop final drafts with full consideration to the review comments (Ad-hoc group members as ed. board. 1-week meeting) late October
- Edited report for distribution by early November 2002 (i.e., prior to SBSTTA 8)
- Key issue do we go to SBSTTA for final approval of the executive summary?
  - If we decide the Roster of Experts is the final approval of the document and the executive summary publication of the document mid January 2003 (Commercial vs. in-house)
  - If the SBSTTA approves the executive summary, then review/approval at SBSTTA 8 followed by publication March 2003

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